READING ASSIGNMENT

DUE: Wednesday, October 25, 11 am
READ: Townsend §7.1, §7.2 and §7.4

Hand your answers back to me either via email (bvollmay@bucknell.edu) or as hardcopy.

1. Show that $[\hat{a}, \hat{a}^\dagger] = \hat{1}$.

2. Why are $\hat{a}^\dagger$ and $\hat{a}$ called “raising” and “lowering” operator?

3. With what of this reading did you have most difficulty and/or what was most interesting? Any open questions?